G R. S 58
Previous references
Mel 368-07

File No 458

1908
(Misc)

Serial Nos. 5-

Later references
Mel 316-08 Pkl, p 6

GENERAL AND REVENUE SECRETARIAT.

Serial Nos

Part B for Oct to 1908

SUBJECT

Sanitary Commissioner's inspection
note of the water supply scheme of the
town of Kanthare.

Pl 5] from the Sanit Comr No 1771 of 30-5-08. Submits for information copy of his letter to Chfy Secy stating that there were defects in the scheme for municipal water supply to Kanthar & that therefore the work was not to be taken over till the defects are corrected by the Sanit Depart.

Pl 6] To the Sanit Comr (2 nos) of 27-08. Enquiries in what respects the scheme is defective —

Pl 7] from the Sanit Comr No 3678 of 25-7-08. Submits copy of letter from the Dy Sanit Officer Western Circle explaining the situation & suggests that future schemes be referred to him for opinion & revised proposals to be sent to room — GPS 5,000—7-1-07 with plans, &c, &c.

Pl 10] from the Sanit Comr No 4106 of 5-10-08. Forwards inspection notes on the water supply of Kanthar

Pl 11] To the Chief Secy's Sanitary Commissioner No 6112 of

(G.R.S 11] 1907 8

GENERAL AND REVENUE SECRETARIAT

(Memorandum)

NOTES

File No. 458-07

FILE HEADING

Revised Estimate for the Water Supply to Haricha

From The Secretary Commissioner

No. 4771 Dated 30 5 08 Received 1. 6 1908

Diary No 9089 | Enclos 1 Spare Copies. | Serial No 5

BRIEF ABSTRACT OF LETTER.

Submits for information a copy of his letter No 4770 of 30-5-08 addressed to the Chief Engineer of Irrigation stating that there are certain defects in the scheme for the supply of Water for the town of Haricha & that orders may be opened to delay the execution of the work till the details of the scheme are gone into by the Secretary's Department

NOTES AND ORDERS

Submitted for information.
of the 1st & 2nd Commissioners.

WBS 3rd
1-6-1908

BB
6/6/08

4124
10-6-08

Secretary

-First Minute. What are the defects in the scheme

Please see. [illegible]
2.6.1908

[illegible]

GP 89

(G R S 12)
General and Revenue Secretariat

Rd File No 4587 of 1907

Serial No	
	re Submitted Hon'ble Mr Stone 30/6/1908 30/6/08
6	To the Salt Commr No 7827 08 Enquires how the scheme for the supply of water to the Harihar Town is defective and in what respect is.
7	From the Salt Commr No 3673 23 7 08 Submits copy of letter No 4328 2 08 from the Dy Salt Officer Western circle explaining the situation and states that the Salt Commr who inspected the place found that the locality decided upon for the pumping is below the outlets of all the sewers from the town, that the spot appears to have been chosen on account of the existence of a pukka masonry well used for irrigating a garden that the present situation could have been avoided if the scheme had been referred to him for opinion in the first instance and requests that with a view to avoid recurrences of such kind in future orders may be issued directing that all such schemes should invariably go through the Salt Dept as requested in his No 3875 6 4 08 Also states that the Dy Engineer is being asked to send up proposals as to how best the defect is to be rectified.

Note—Contin sheet.

GPH—80 000—17 3-07

Serial No

can be remedied and that the same will be forwarded to Govt on receipt

The Sanry Comm's proposal that all sanitary schemes should pass through the Sanry Deptt. is being dealt with separately in the Sanry Section

May the promised further comm be awaited?

KBM 29 Submitted for perusal
27/7 (1st and 2nd Cols) 28 7 08 JELL

7664/28 7 1908

Seen The further comm promised may be awaited Meantime a copy of this letter (No 367) may be sent DC & the Dy Jr Chief Engr for his info & remarks if any - JELL 31/7/1

Draft submitted
KBM 29
1908

Issue
3 8 . 8 JELL

0639

GRS 27]

GENERAL AND REVENUE SECRETARIAT

(*Continuation Sheet Draft form*)

Ho H38 0 6 8 0
mal 45807

Dear Sir,

I am directed to forward for your information and remarks, if any, copy of Sanitary Commr's letter No 3678 23-7-08 and together with ch enclosure, re defects in the water-supply scheme for the Town of Haridar.

Yours obediently
Illegible
Assistant Secretary
28/8/08

To

Chemical Chief 35
Dy Commr, Chitaldrug Distt

5/8 M 5/8

MOC PR—30000—5-10

G. R. S. 12]
General and Revenue Secretariat

File No. 458 of 1907

Serial No. 10

From the Sanry Commr No 14082 S. 10-08

Forwards in continuation of Serial No 7 his inspection notes regarding the water-supply to the town of Harihar together with a copy of the Chief Engrs letter on the same subject

It is seen from the Sanry. Commrs inspection notes that the works are practically completed and that what he wants is that the intake pipe should be led down 6 feet from the point from which the Railway Company draw their water-supply

Submitted for orders

Bkt. S.G. 18/10 — The Chief Engineer may be consulted as regards the Sanry Comrs proposal (1st & 2nd Crs) 17-10-08 WWH

8489 / 18 10 1908 Mysore

Please communicate to the Sanry Comr a note of the Chief Engrs comments without further delay — [and submit for consideration upon the reports]

note

Please put up draft

29-10-08 WWH

By C.V. 29/10

Dft subd Bkt S.G. 29/10

Issue

30 10 08 WWH

G R. S 12]
General and Revenue Secretariat

25

File No of 190

Serial No	
	Draft issued and file submitted to 2 C Sd 3/11/08 Accn Hqrs 6/11/08
11	To the Chief Engr and Secy. Com vr 4117-8 Sd 31/10/08 2nd 458-09 Communicates a copy of the Secy Comm's notes to the Ch Engr

Hqrs—Centm. Shmt

G/P.B—50,000—18-5-08

4771
Enl

Sanitary Commissioner's office,

Bangalore, dated 30 May 08

9(L) 4580/7
8(5

From.

Major H.E.Drake-Brockman, I.M.S.,
Sanitary Commissioner to Mysore Govt.,
Bangalore.

To.

C S Balasundram Iyer Esq, P A ,
Secretary to Govt, Gen & Rev Depts.,
Bangalore.

Sir,

I have the honor to forward herewith for the information of Government copy of my letter No. 4771 dated 30 5 08 addressed to the Chief Engineer in Mysore regarding the scheme for the supply of water to the town of Harihar.

I have the honor to be,

Sir,

Your most obedient servant,

H E Drake Brockman

Sanitary Commissioner

192

From The Secy Cons
D 9089

To

Dated

Despatched

Received

General No.

No.

Enclosure No

Forwarding for
letter No 4778 B
30.5.08 to the Chief
Engineer on Depos
re the Scheme for
the supply of water
to the town of
Stanthorpe for
information

Letter No dated from the Sanitary Commissioner to the Chief Engineer

As the Divisional Sanitary Officer, W C Shimoga, has brought to notice certain defects in the scheme for the supply of water sanctioned for the town of Harihar, I have the honor to request that you will be so good as to issue orders to delay the execution of the work if it is already taken in hand, till the details of the scheme are gone into by this Department The Executive Engineer, water supply Division has forwarded a copy of report in connection with the water supply but the plans have not been sent with the above These may kindly be caused to be forwarded at an early date

---

" Copy "

H A Drake Brockman

Sanitary Commissioner

Sen

458

GRS 26]

File No 07
Serial No 6

Diary No of letter replied to 9089

No 7
mll 45607-
92-7 08

General and Rev Secretariat
Mussoorie
, the 190

To

The Secretary Govt
with the Govt of H
H the Maharaja of Jaipur

Date of issue 2-7 08

Signed by — [illegible]

Sir,

With reference to your letter No 1,7716 of the 30th May 1908 I am directed to request ~~that~~ you to be so good as to ~~ascertain~~ inform ~~whether~~ how the Scheme for the supply of water to the Nasirabad Town is defective & in what ~~respects~~ respects -

I have etc

[illegible]
30/6/08

SUBJECT [illegible]

30 6 1908

Encls
1/7 H/7

List of enclosures.

Copies to

Enumerated by

Department of Public Health in Mysore. Ml 458-07

No 367 Enc. OFFICE OF THE SANITARY COMMISSIONER IN MYSORE, 87

Bangalore, Dated the 23 July *1908.*

From

Lt.Col.John Smyth, D.I.S.
Sanitary Commissioner to the Government of
His Highness the Maharaja of Mysore,
BANGALORE

To K C.Chandrasekhara Iyer Esq, M.A.,B.L.,
Secretary to the Government of
His Highness the Maharaja of Mysore,
General and Revenue Departments,
BANGALORE

Sir,

In reply to your letter No.7 Ml.458-07-6 dated the 2nd July 1908 enquiring how the scheme for the supply of water to Harihar Town is defective and in what respects, I have the honor to forward herewith for the information of Government copy of letter No.4 camp dated the 28th February 1908 from the Divisional Sanitary Officer, Western Circle, which explains the situation clearly. The Deputy Sanitary Commissioner inspected the place and found that the locality decided upon for the pumping is below the outlets of all the sewers from the town From a copy of the report I got from the Executive Engineer, Water supply & Stores Division, I see that the idea of pumping water from the spot now chosen was suggested by the existence of a "pukka masonry" well which could be utilized for the purpose. The well was being used for irrigating a garden, and naturally it is in the interests of the owner to have a well at a spot where all the sewers would collect. The present situation would possibly have been avoided if the scheme had been referred to the Police for opinion in the first instance in accordance with Government order No 9301-10Fl 67-03- dated the 8th April 1903 with a view to avoid recurrences of similar

and

Department of Public Health in Mysore.

190 —o

From

The Sanitary Commissioner,
to the Government of

To

The Secretary to the Govt of H H the
Maharaja of Mysore, Gen. & Rev
Re

Dated

Despatched

Received

General No.

Enclosure No.

kird in future I beg t at Goverrment ma e moved to issue orders directing that all such schemes should invariably pass through this Department as already suggested in this office letter No 3875 dated the 6th April 1908

2. The Sanitary Engineer is being asked to send up proposals as to how best the defect under reference can be remedied, which will be forwarded to Government on receipt

I have the honor to be,

Sir,

Your most obedient servant,

Sanitary Commissioner

Letter No.4 dated 28-2-08 from the Divisional Sany. officer, W.Circle, Shimoga to the Sany. Commr.

I have the honor to state that having heard that Government have very graciously sanctioned about Rs.22000 and odd for providing drinking water of a better quality for the Harihar Town, I availed myself of my recent visit to that place to acquaint myself with the particulars of the scheme, and from enquiries made, I am given to understand that according to the said scheme it is intended to take in water from the Tungabhadra river by pumping immediately below the spot where the stream receives or is expected to receive all the town drainage. Hitherto owing to the scanty supply of water used, the drainage from the town into the stream could have perhaps be n treated as a negligible factor. But, hereafter, on the introduction of the pipe-water system, it cannot be so All the water drawn from the river minus what is lost by evaporation will necessarily get back into the river, charged with the town sewage And this compared with the volume of water in the stream especially, during dry months will be found to be sufficiently large to contaminate the river water and render it unfit for human consumption. It is not known why water from such a source has been preferred to that available higher up the stream The use of the Jewell-filter can not be considered to confer sufficient guarantee for the perpetual supply of pure water in the above circumstances The Jewell-filter, notwithstanding the marvellous success attributed to it, does not appear to have passed the stage of experiment yet. At any rate, its power for filtering perpetually waters drawn directly from tropical rivers has, in my opinion, yet to be tested. Further, it is needless to say that when, as it is incidental to all machineries of the kind, the filter is undergoing repairs or has to be stopped [illegible] for other causes, the people would [illegible] would

would be enormous Thus the benefits expected to accrue from the proposed scheme may not be commensurate with the heavy expenditure involved

In these circumstances, I would wish that before the scheme is taken on hand for execution, it may form a subject matter for the consideration of the Central Sanitary Board

---

"Copy"

for Sanitary Commissioner

Ju l 4 58 07
- Sl 20 10

Department of Public Health in Mysore

No 1406
Enc 1

OFFICE OF THE SANITARY COMMISSIONER IN MYSORE

Bangalore, Dated the 5-10-1908 *190*

From

Lt.-Col J Smyth, M D., I M.S.,
Sanitary Commissioner to the Government of
His Highness the Maharaja of Mysore
BANGALORE

To **K. S Chandrasekhara Iyer Esq ,B A ,B L ,**
Secretary to the Government of
His Highness the Maharaja of Mysore
General and Revenue Departments
BANGALORE

Sir,

In continuation of my letter No 367 dated the 23rd July 1908 I have the honor to forward herewith copy of letter No 5150 dated the 4th August 1908 from the Chief Engineer of Mysore regarding the water supply of the Harihar town togetner with my Inspection notes on the subject

I have the honor to be,

Sir,

Your most obedient servant,

A Rangan

FOR Sanitary Commissioner

Department of Public Health in Mysore.

190 —o

From Lt.-Col John Smyth M D &c

The Sanitary Comissioner,
to the Government of Mysore
Bangal

To K.S Chandrashekara Iyer Esqr.

The Secretary to the Govt of H H the
Maharaja of Mysore, Gen & Rev Dept.
Bangal.

Dated
Despatched } 5-10-1905

Received

General No 1406

Enclosure No one

Forwarding the enquiry
notes of Harihar Town of
water Supply

Letter No. 5150 dated the 4th. August 1908 from the Chief Engineer of Mysore to the Sanitary Commissioner with the Government of Mysore, Bangalore, and President, Central Sanitary Bd.

With reference to your letter No. 366 of the 23rd. Ultimo to the address of Mr. J. Bhore, Sanitary Engineer, asking him to inspect the Harihar town and give his views as to whether it is not possible to obtain water higher up the river for pumping water to the town, as it is reported that the locality decided upon for pumping is below the outlets of all the sewers from the town, I have the honor to inform you that I personally inspected the town and the site chosen for the pumping is in my opinion the best one obtainable.

The enclosed copy of my answer dated the 13th. Ultimo to the Dewan of Mysore on the subject, will show you that there is no other suitable site

---

(e n c l o s u r e)

D. O dated the 13th. July 1908 from the Chief Engineer of Mysore, to the Dewan of Mysore.

Your D. O No. 1204 of the 11th. Instant

I am responsible for the site chosen for the intake to the pumps for the water supply to Harihar and I would draw your attention to Mr. Rangaswamiengar's report and to my Note dated 28th. January 1908.

The site is a very good one and no fear need be entertained of contamination from the sewage from the town.

There is no suitable site above the town excepting at such a long distance as to make the cost prohibitive both in repect to capital out-lay and annual working charges.

"Copies"

for Sanitary Commissioner.

Inspection notes by Sanitary Commissioner.

10-9-08- Harihar.

A difference of opinion having arisen between the Chief Engineer and the Sanitary Commissioner in regard to the arrangements in process of completion for the supply of water to Harihar, I inspected the works to-day. The difficulty arises in this way. The town sewage of Harihar discharges into the river Tunga Bhadra immediately above the Road Bridge It is carried through the neighbouring arch along the bank of the stream towards the railway bridge some 500 yards further down. Now about 2/3 of the way from the Road Bridge it is proposed to take the water supply for Harihar from this river. This spot was selected because there was an old but good irrigation well there in direct communication with the stream by a tunnel, which was purchasable for Rs. 500 & the grant, in addition, of 2000 gallons of water daily from the filters to the farmer selling the well, for the irrigation of his field It was clearly recognised by the Water Supply Engineer that water obtained in this way this made available would not be altogether satisfactory, so instead of allowing the water to enter the well directly by the old tunnel be sealed one end of a pipe on to the end of the tunnel, and led the other end out into the river to a point 30 feet from the river brink at the low water season where also there was at the same time, a depth of 20 feet below the projecting end of the pipe, and the same depth between the pipe and the surface So far then, increased security as certainly [illegible]. He had before him also the example of the Rail- [illegible] Company, who for the last 16 years, have been taking [illegible] from the river about 200 yards further down, water [illegible] though new & filtered at all there is no reason to [illegible] be doubtful to its consumers

But to make ~~supply~~ still more certain, the Engineer has erected a town Jewell installation by which the water will be filtered before it is supplied to the town. Thus, so far as it has been possible it may almost be said that no effort has been spared to make the water received from the source described as safe as possible.

Well, as the matter was one of considerable importance & although I ~~think~~ knew the site & circumstances very well I determined to examine the matter for myself. The original protest against the intake being from the site under discussion was made by the Divisional Sanitary Officer as far back as February last, but as the matter was not dealth with in a proper manner, it was allowed to slide & slide till, when it came to my notice it was already a matter of history, but yet under discussion, and the work was practically completed. I went therefore not so much with the idea of upsetting what had been done, as with the view of making the best of it

To begin with, then, I may say at once that I agree with the Divisional Sanitary Officer that the site selected is an unfortunate one specially as the water is to be drawn direct from the river and not from the well after percolation through the mass that intervenes between it and the well. Although the mass of water is great, often enormous in this river, and the consequent dilution of added matter is apparently great, there are circumstances which discount this fact considerably. Like all streams whose bed or banks are not uniform the stream here presents varieties of current which count for danger to a water supply taken at the spot now selected The general trend of the current as one might be expected down-stream, but just where we are to take off the water is a whirl which sends the current [illegible] stream and gives dead water near the take off Here [illegible] is the favourite resort of fishermen, & a little [illegible] , 8 - 30 yards [illegible] accumulates, when

there is no wind, a grey scum extending out into the river about 60 feet and along its bank about 100 feet. This is of course dead water, or water moving slowly in a circular direction- & means stagnation & accumulation of whatever impurities there may be in the water at this point
How far this condition exists deep down in the river it is impossible to say without recourse to troublesome ~~invest~~ investigation which I am not competent to carry out. This would be a matter for marine or river specialists to settle However to continue as regards the surface, just at the intake or immediately below it, the current is down-stream and very rapid by the time it reaches the intake ~~by used~~ used by the Railway Company The Company would therefore seemingly be always in receipt of water running strongly and not of dead water. Just above I have referred to the possible large dilution of such impurities as this river may receive from the town of Harihar. But I would like to say that such dilution is infinitely less than the uninitiated might be inclined to belive. Impurities like excreta in point of fact mix but little with the water to which they are added, and so the water might frequently be found badly infected at one spot but quite healthy a few feet off It is well recognised that but for this fact every village on a river's bank whose water was cholera infected would be decimated with cholera, whereas it is well known that many villages escape though all use water from the river The drift of all this is, that if the necessary undersurface currents exist however mighty the mass of water may be, if cholera infected material has been added, ~~[illegible]~~ a pipe, whose intake is in the depths of this body of [illegible], may, at any moment, get the infection in a state [illegible] dangerous concentration, and the chance is increased if the water is in the condition of dead water, or of water moving slowly in a circular direction.
[illegible] would result, I prefer, instead of [illegible] all

that has been done, and considering the great expense which getting an intake from a really an ideal position would involve, that the intake pipe be led down to near the point from which the Railway Company draws their water supply It is possible that the Jewell installation may be sufficient to purify the water even from the present intake, but no belief that one can purify water by any conceivable sort of filter justifies the sanitarian in taking water from any but the best source reasonably available It is not clear how this project ever came to be sanctioned by Government without first having been scrutinized by the Sanitary Commissioner, as required by Govt Order No 9301 of 8th April 1905 and it is to be hoped that the orders of Government in such matters as these will in the future be carefully attended to, and thus save much trial and misunderstanding and perhaps averting serious sanitary mishaps

Sanity Commissioner,
to the Govt Government

ab B

28]

File No 458-07
Serial No 11

Diary No of letter replied to 2372

Proceedings of the Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE SECRETARIAT
(Genl)

, the 190

Date of issue 31 10 08

Signed by Mukam

READ—

Correspondence ending with letter No 14068 5-10-08 from the Sanitary Commr to the Govt of Mysore forwarding a copy of his inspection notes regarding the water-supply to the town of Harihar

ORDER THEREON—No 4117-8 in 458-07, 31/10/08

A copy of ~~the~~ the Sanitary Commr's inspection notes ~~etc~~ is communicated for information and to the Chief Engineer for necessary action.

Sd/-
Forbes

To
The Ch. Engr
Sany Commr

SUBJECT

Typed
MSR
31/10/08